

ACCREDITATION CERTIFICATE

No. LA.176-01

Lithuanian National Accreditation Bureau hereby certifies that

complies with the requirements of

JSC “Vandens tyrimai”

LST EN ISO/IEC 17025:2018

legal entity: UAB „Vandens tyrimai“
legal entity code: 300569809

and is competent to perform:

chemical tests of water, waste water, field-moist soil, soil, sludge and treated biowaste

The scope of accreditation below is an integral part of this certificate. Locations of the conformity assessment body are specified in the scope of accreditation

Initial accreditation date: **2021-02-01**

Certificate issued / valid since: **2024-11-25**
Version of: **2024-11-25**
Expiry date: **2026-01-31**

Director



DĀLIA BALEŽENTĒ

The certificate may be changed, its validity suspended or withdrawn by the decision of the National Accreditation Bureau. Information on the actual data of accreditation certificates may be verified at nab.lv.lt





SCOPE OF ACREDITATION

JSC “Vandens tyrimai”, accredited in accordance with **LST EN ISO/IEC 17025:2018**

Location of the conformity assessment body

Žirmūnų str. 106, LT-09121 Vilnius

| Materials or products tested | Component, parameter or characteristic to be tested | Reference number of the document specifying test methods, clause (if relevant) | Techniques, methods and/or equipment used (where appropriate) |
|--|---|--|---|
| Drinking, ground, surface water, waste water | Lithium, ammonium, calcium, magnesium, potassium, sodium content | LST EN ISO 14911:2000 | Ion chromatography (IC) method |
| Drinking, ground, surface water, waste water | Chloride, fluoride, nitrate, nitrite, sulphate, orthophosphate, bromide content | LST EN ISO 10304-1:2009 | Ion chromatography (IC) method |
| Surface water, waste water | Chemical oxygen demand (COD) | ISO 15705:2002, except cl.10.3 | Spectrophotometric method |
| Drinking, ground, surface, pool water | Permanganate index | LST EN ISO 8467:2000 | Titrimetric method |
| Drinking, ground, surface, pool water, waste water | pH value | LST EN ISO 10523:2012 | Potentiometric method (electrochemistry) |
| Drinking, ground, surface water, waste water | Electrical conductivity | LST EN 27888:1999 | Conductometric method (electrochemistry) |
| Surface water, waste water | Hydrocarbon oil | LST EN ISO 9377-2:2002 | Gas chromatography (GC) method |
| Drinking, ground, surface, rain water, waste water | Mercury content | LST EN ISO 12846:2012, except cl. 6 | Atomic absorption spectrometry (AAS) method |
| Drinking, ground, surface, rain water, waste water | Content of aluminium, arsenic, chromium, zinc, antimony, cadmium, copper, lead, manganese, molybdenum, nickel, selenium, vanadium, cobalt | LST EN ISO 15586:2004 | Atomic absorption spectrometry (AAS) method |
| Drinking, surface, ground water, waste water | Content of phthalates: dimethyl phthalate, diethyl phthalate, dipropyl phthalate, diisobutyl phthalate, | LST EN ISO 18856:2005 | Gas chromatography/ mass spectrometry (GC-MS) method |

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|--|---|--|---|
| | dibutyl phthalate, dicyclohexyl phthalate, di(2-ethylhexyl) phthalate | | |
| Surface, ground water | Bromate content | SVP 7.2-1:2019 | Spectrophotometric method |
| Drinking, ground, surface water, waste water | Content of chloroform, bromodichloromethane, dibromochloromethane, bromoform, trichloroethene, tetrachloroethene, tetrachloromethane, 1,2-dichloroethane, benzene, toluene, ethyl benzene, o-, m-, p-xylene, 1,2,4-trimethylbenzene | ISO 20595:2018 | Gas chromatography/ mass spectrometry (GC-MS) method |
| Drinking, ground, surface water, waste water | Content of hexachlorobenzene, α-hexachlorocyclohexane, γ-hexachlorocyclohexane, β-exachlorocyclohexane, δ-hexachlorocyclohexane, heptachlor, aldrin, isodrin, trans-heptachlorepoxyde(A), cis-heptachlorepoxyde(B), dieldrin, endrin, 4,4'-methoxychlor | LST EN ISO 6468:2000 | Gas chromatography (GC) method |
| Surface, ground water, waste water | Suspended solids | LST EN 872:2005 | Gravimetric method |
| Drinking, ground, surface water | Iron (II), iron (total) content | SVP 7.2-3:2022 | Spectrophotometric method |
| Drinking, ground, surface water, waste water | Boron content | SVP 7.2-2:2022 | Spectrophotometric method |
| Drinking, ground, surface water, waste water | Orthophosphate and total phosphorus content | LST EN ISO 6878:2004, cl.4,7 | Spectrophotometric method |
| Drinking, ground, surface water, waste water | Total and composite alkalinity, hydrogen carbonate content | LST EN ISO 9963-1:1999, except cl. 8.2 | Potentiometric method (electrochemistry) |
| Drinking, ground, surface water, waste water | Biochemical oxygen demand (BOD) | LST EN ISO 5815-1:2019, except cl. 9.6.1 | Potentiometric method (electrochemistry) |
| Drinking, ground, surface water | Colour | LST EN ISO 7887:2012, method C | Spectrophotometric method |
| Drinking, ground, surface water | Turbidity | LST EN ISO 7027-1:2016, except cl. 5.3 | Turbidimetry |
| Surface, ground water, waste water | Naphthalene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, chrysene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene content | LST EN ISO 17993:2004 | High performance liquid chromatography (HPLC) method |
| Surface, ground water, sea water, waste water, leachates | Total bound nitrogen and total organic carbon content | LST EN ISO 20236:2022 | Instrumental |
| Surface, ground water, waste water | Content of Benzene, toluene, ethyl benzene, o-, m-, p-xylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene | US EPA 8015B:1996 | Gas chromatography (GC) method |

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|--|---|--|---|
| Surface, ground water, waste water | Total and liberatable cyanide content | LST ISO 6703-1:1998, except cl. 3,4 | Spectrophotometric method |
| Surface, ground water, waste water | Bisphenol A, 4-n-octylphenol, 4-tert-octylphenol, 4-n-nonylphenol, nonylphenol content | SVP 7.2-4:2023 | Liquid chromatography/mass spectrometry (LC-MS) method |
| Field-moist soil, soil | Hydrocarbon oil | ISO 16703:2004 | Gas chromatography (GC) method |
| Field-moist soil, soil, sludge, treated biowaste | Naphthalene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, chrysene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene content | ISO 13859:2014, except cl.8.2, 10.6 | High performance liquid chromatography (HPLC) method |
| Field-moist soil, soil | Content of arsenic | ISO 20280:2007, method A | Atomic absorption spectrometry (AAS) method |
| Field-moist soil, soil | Mercury content | ISO 16772:2004, except cl. 5.3, p.7.4.2 | Atomic absorption spectrometry (AAS) method |

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.

The accreditation certificate is signed with a qualified electronic signature as an attachment to the order of the Director of the National Accreditation Bureau, by which it was approved